

TWO-STAGE PUMP WITH HIGH HEAD AND LOW DELIVERY

ABSTRACT

Pump comprising a body (10), an actuating shaft  
5 (1) on which at least a first impeller (21a) and a  
second impeller (21b) are coaxially mounted, each being  
housed in a respective front chamber (15a) and rear  
chamber (15b) respectively connected to a fluid intake  
duct (11) and a fluid delivery duct (13), in which said  
10 front chamber (15a) is delimited by said body (10) and  
by an interstage body (16), said rear chamber (15b) is  
delimited by said interstage body (16) and by a shield  
(23), said interstage body has two volutes (22a, 22b)  
respectively associated with the corresponding first  
15 impeller (21a) and second impeller (21b), a first  
discharge orifice (16a) connecting the volute (22a) of  
the first impeller (21a) to the exterior, a second  
discharge orifice (16c) connecting the volute (22b) of  
the second impeller (21b) to the delivery duct (13),  
20 inside said body (10) there being formed a channel (17)  
for the throughflow of the fluid from said first  
chamber (15a) to the means for supplying the fluid to  
the second impeller (21b).